



Forest Sector Stakeholder Working Group on Scoping Plan Development

January 25, 2008

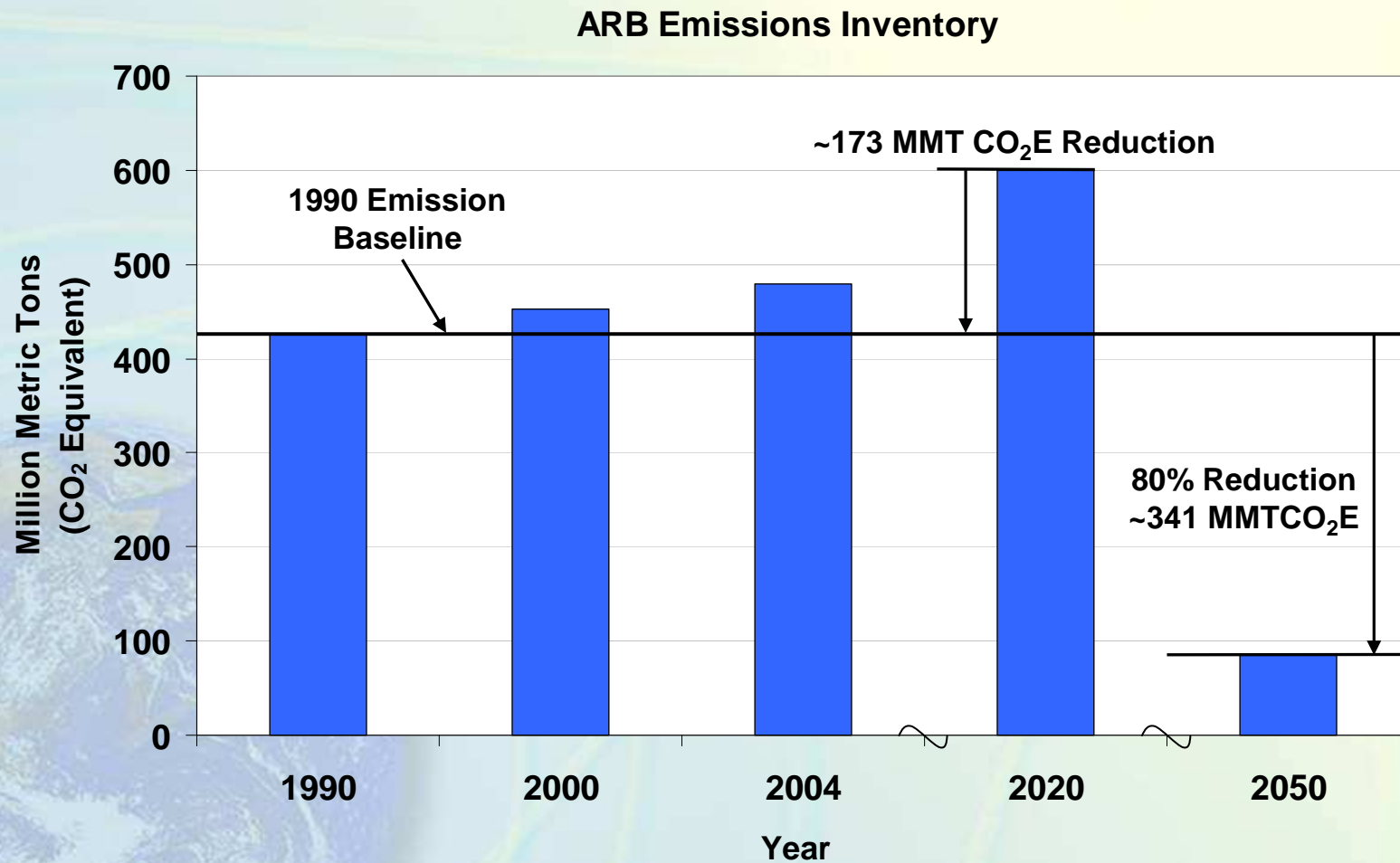
Overview

- **Introductions**
- **Update on CCAR Forest Protocol Development**
- **Overview of AB 32 Scoping Plan Process**
- **Potential Forest Strategies for Greenhouse Gas Reductions**
- **Next Steps**

Overview of Global Warming Solutions Act (AB 32)

- **Sets in statute emission target to reduce GHG emissions to 1990 levels by 2020**
- **ARB given authority to monitor and regulate GHG sources**
- **Cal/EPA and Climate Action Team coordinate statewide climate policy**
- **Coordinate with other states and countries to reduce emissions**

Magnitude of the Challenge



Potential Climate Impacts on California Forests



- Reduced forest productivity in mature stands
- Reduced yield for plantations
- Increased vulnerability to disease and pests
- Increased vulnerability to catastrophic wildfire

Scoping Plan

- **Describes how California will reduce GHG emission levels to 1990 levels by 2020**
- **Plan not a regulation**
- **Identifies measures for future adoption or implementation**
- **Addresses all sectors**

Scoping Plan Sectors

- **Agriculture**
- **Electricity**
- **Forest**
- **High Global Warming Potential Gases**
- **Land Use & Local Government**
- **Manufacturing**
- **Oil & Gas/Refining**
- **Transportation**
- **Waste Management & Landfills**
- **Water**

Overview of the Scoping Plan Process

- Scoping plan will identify mix of measures and approaches to achieve 2020 target
- Regulations, voluntary approaches and incentives being explored
- Forest sector measures viewed primarily as a source of voluntary GHG reductions
- Measures identified by CAT forestry group provide foundation for scoping plan development
- Stakeholder input to build on existing work

Defining the Forest Sector for the Scoping Plan

Included:

- **Forest resources**
 - Forest land, including urban forests, coniferous forests, woodlands, riparian forests
 - Rangelands capable of supporting forests
 - Co-benefits
- **Production & consumption of forest products**
 - Primary wood products
 - Processing of wood fiber for bioenergy
 - Substitution of wood for other products

Scoping Plan Program Design

- **Forest sector team not directly addressing offsets and other market mechanisms**
- **Role of market mechanisms being addressed in context of economy-wide program design**
- **Scoping plan will include recommendations on role of offsets in implementing AB32**

Tentative Meeting Schedule for Forest Stakeholder Working Group

- **Forest Stakeholder Workgroup Meeting**
Sacramento, January 25, 2008
- **Forest Sector Strategy Breakout Sessions**
Sacramento, February 1, 2008
- **Forest Sector Strategy Breakout Sessions**
Sacramento, February 22, 2008
- **Forest Stakeholder Workgroup Meeting**
Sacramento, March 21, 2008



Greenhouse Gas Reduction Strategies and Approaches for the Forest Sector

**Forest Sector Workgroup Meeting
January 25, 2007**

**Cathy Bleier
California Dept. Forestry and Fire Protection**

Key Strategy Categories

- **Reforestation/Afforestation**
- **Conservation**
- **Forest Management**
- **Urban Forestry**
- **Fuels reduction/Biomass energy**

Reforestation/Afforestation

Objective: Increase sequestration by planting previously forested areas (less than 10% cover for >10 years), and by planting non-forest areas

CAT measures:

- Increase small landowner assistance by expanding CFIP
- Increase planting through carbon market
- Reforest state owned lands

Other potential measures: tax credits, bioenergy cropping, federal activities

Conservation

Objective: Prevent emissions and loss of future sequestration potential from development or vegetation conversion

CAT measures:

- Prop 40/50 acquisitions (easements or fee title) of forest and woodlands in 2005 and 2006
- Prop 84 bond purchases

Other potential measures:

- Mitigation opportunities under CEQA, carbon markets, future bond acts

Forest Management

Objective: Increase and maintain carbon stocks on forestland through management actions

CAT measures:

- Riparian forest extension
- 2004 California Forest Practice Rule changes

Other potential measures: thinning, rotation changes, protocols for wood products, carbon markets

Urban Forestry

Objective: Sequester carbon, reduce energy use through shading and provide wood waste for bioenergy

CAT measures:

- Prop 84 urban greening grants
- Local agency and non-profit initiatives

Other potential measures: tax incentives, technology enhancements, new generation facilities, state agency projects

Fuels reduction/Biomass energy

Objective: Reduce GHG wildfire emissions and increase woody biofuel and bioenergy production

CAT measures:

- Expand state fuels reduction programs (Prop 40, CFIP)
- Continue USFS fuels management activities
- Expand fuels reduction by implementing Bioenergy Action Plan

Other potential measures:

- fuel transportation subsidies, tax credits, RPS, reduction of barriers to selling power

CAT Measures: 2020 Targets for GHG Benefits (Sequestration, Avoided Emissions and Energy Related Benefits)

Strategy and Measures	S	AE	E	TOT
Reforestation/Afforestation: 430,000 ac forest and woodland tree planting	1.98			1.98
Forest Conservation: 224,000 ac forest & woodland easements and purchases	0.05			0.4*
Forest Conservation Management <ul style="list-style-type: none"> • 2004 Forest Practice Act T&I rules • Riparian buffers 	0.26 2.09*			2.35
Fuels Management: 6.2 million ac <ul style="list-style-type: none"> • State and federal fuel reduction programs • Bioenergy Action Plan 		0.09	2.86	2.95
Urban Forestry: Plant 5 million trees in urban areas	0.14	0.69	0.05	0.88

* Average annual value based on cumulative benefits



FORESTRY SECTOR STAKEHOLDER WORKGROUP PROCESS

WORKGROUP OBJECTIVES

- ASSESSMENT OF STRATEGY SEQUESTRATION POTENTIAL
- EVALUATION OF **CAT** ACTION PLAN MEASURES
- DEVELOPMENT OF ADDITIONAL MEASURES FOR EACH STRATEGY

WORKGROUP PROCESS

- TWO GENERAL STAKEHOLDER MEETINGS
 - JANUARY 25TH BRIEFING
 - MARCH 21ST SYNTHESIS REVIEW
- TWO STRATEGY BREAKOUT SESSIONS-STAGGERED CONCURRENT SESSIONS
 - FEBRUARY 1ST
 - FEBRUARY 22ND

ADDITIONAL MEASURE DEVELOPMENT

1. MEASURE NAME

2. CATEGORIZATION OF MEASURE OBJECTIVES

- GREENHOUSE GAS ONLY MOTIVATION
- NON-GREENHOUSE GAS MOTIVATION WITH GREENHOUSE GAS BENEFIT
- MOTIVATED BY MULTIPLE BENEFITS

ADDITIONAL MEASURE DEVELOPMENT

3. MECHANISM FOR ACHIEVING MEASURE OBJECTIVE

- VOLUNTARY
- REGULATORY
- INCENTIVE BASED
- MARKET BASED
- OTHER

ADDITIONAL MEASURE DEVELOPMENT

4. IDENTIFY QUANTIFICATION METRICS

- UNITS OF MEASUREMENT TO TRACK PERFORMANCE AGAINST GOALS
- PROCESS FOR MONITORING AND REPORTING INCLUDING
 - METRIC ACCURACY
 - VERIFICATION PROCESS

ADDITIONAL MEASURE DEVELOPMENT

5. DESCRIBE IMPLEMENTATION STEPS, TIMELINES AND BARRIERS
6. IDENTIFY **GHG** EMISSION REDUCTIONS
7. IDENTIFY COSTS AND SAVINGS
8. IDENTIFY OTHER BENEFITS
 - CO-BENEFITS WITH DIRECT **GHG** REDUCTION LINKAGES
 - OTHER NON-**GHG** BENEFITS

How to participate

- Through direct involvement in stakeholder meetings (BEST)
- Send measures and/or plans to Scoping Plan personnel at ARB, Resources and CalFire
- Call or meet with Scoping Plan personnel

Contact Information

Central email for forestry-related Scoping
Plan communication at ARB:

forestry@arb.ca.gov

Other Contact Information

**Anthony Brunello, Deputy Secretary, California
Resources Agency
(916) 653-5700
tony.brunello@resources.ca.gov**

**Linda Murchison, Chief, Planning and Technical
Support Division, ARB
(916) 322-5350
lmurchis@arb.ca.gov**

**Bill Snyder, Deputy Director Resource Mgt., CAL FIRE
(916) 653-4298
bill.snyder@fire.ca.gov**